

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the application of:

Attorney Docket No.: 1432.06US03

Walsh et al.

Confirmation No.: Not Assigned

Divisional of Application No.: 09/900,466

Examiner: Not Assigned

Filed: September 11, 2003

Group Art Unit: Not Assigned

For: SYSTEM AND METHOD FOR ENCAPSULATING BIOLOGICAL MATERIAL BY
APPLYING ELECTROSTATIC CHARGE TO CAPSULES

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Pursuant to 37 C.F.R. § 1.56, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached Form PTO-1449. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement is being filed with the application. No certification or fee is required.

Copies of the references were cited by or submitted to the Office in Patent Application No. 09/900,466, filed July 5, 2001, which is relied upon for an earlier filing date under 35 U.S.C. § 120. Thus, copies of these references are not attached. 37 C.F.R. § 1.98(d).

Divisional of Application No. 09/900,466
Filed July 5, 2001

This application is being filed after June 30, 2003; therefore, copies of cited U.S. patents and U.S. published applications are not included.

Respectfully submitted,



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CERTIFICATE OF EXPRESS MAIL

"Express Mail" mailing label number EV321547311. Date of Deposit: September 11, 2003. I hereby certify that this paper is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. § 1.10 on the date indicated above and is addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Janet Gieseke
Name of Person Making Deposit

Janet Gieseke
Signature

Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				<i>Complete if Known</i>	
				Application Number	New Divisional Application
				Filing Date	September 11, 2003
				First Named Inventor	Stephen E. Walsh
				Art Unit	Not Assigned
				Examiner Name	Not Assigned
Sheet	1	of	4	Attorney Docket Number	1432.06US03
U.S. PATENT DOCUMENTS					
EXAMINER INITIAL [*]	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	
		Number-Kind Code ² (if known)			
		US-3,160,686	12-1964	Doyle et al.	
		US-3,313,608	04-1967	Guyer et al.	
		US-4,352,883	10-1982	Lim	
		US-4,391,909	07-1983	Lim	
		US-4,407,957	10-1983	Lim	
		US-4,409,331	10-1983	Lim	
		US-4,663,286	05-1987	Tsang et al.	
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		US-4,696,286	09-1987	Cochrum	
		US-4,789,550	12-1988	Hommel et al.	
		US-4,803,168	02-1989	Jarvis, Jr.	
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		US-5,227,298	08-1993	Weber et al.	
		US-5,260,002	11-1993	Wang	
		US-5,286,496	02-1994	Batich et al.	
		US-5,429,821	07-1995	Dorian et al.	
		US-5,462,866	10-1995	Wang	
FOREIGN PATENT DOCUMENTS					
EXAMINER INITIAL [*]	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	T ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)			
EXAMINER SIGNATURE		DATE CONSIDERED			
<p><small>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</small></p> <p><small>¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.</small></p> <p><small>This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450 Alexandria, VA 22313-1450.</small></p>					

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		US-5,470,731	11-1995	Cochrum	
		US-5,514,377	05-1996	Cochrum et al.	
		US-5,521,079	05-1996	Dorian et al.	
		US-5,531,997	07-1996	Dorian et al.	
		US-5,578,314	11-1996	Cochrum et al.	
		US-5,639,467	06-1997	Dorian et al.	
		US-5,643,594	07-1997	Dorian et al.	
		US-5,648,099	07-1997	Batich et al.	
		US-5,656,468	08-1997	Dorian et al.	
		US-5,679,565	10-1997	Mullen et al.	
		US-5,693,514	12-1997	Dorian et al.	
		US-5,876,742	03-1999	Cochrum et al.	
		US-6,001,387	12-1999	Cochrum	
		US-6,020,200	02-2000	Enevold	
		US-6,033,888	03-2000	Batich et al.	
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Sheet **3** of **4**

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Art Unit	Not Assigned
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NON PATENT LITERATURE DOCUMENTS

EXAMINER INITIAL*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
		<i>Electrostatically Produced Fuel Sprays for Combustion Applications</i> , W. Balachandran, D. Hu, A.J. Yule, J.S. Shrimpton, A.P. Watkins, International Conference Liquid Atomization and Spraying Systems -94, Rouen, France, pp. 994-1001, July 1994.	
		<i>A Comparison of Four Solutions for Cold Storage of Pancreatic Islets</i> , V.D.A. Delfino, D.W.R. Gray, C. Kar Leow, S. Shimizu, D.J.P. Ferguson, P.J. Morris, Official Journal of the Transplantation Society, Vol. 56, No. 6, pp. 1325-1330, December 1993.	
		<i>The Electrical Dispersion of Liquids as Aerosols</i> , V.G. Drozin, Journal of Colloid Science, Vol. 10, pp. 158-164, 1955.	
		<i>Ligament Formation for an Electrostatic Atomizer Operating in Multi-jet Mode</i> , J.T. Epperson, P.E. Sojka, Proceedings of the 12th Annual Conference on Liquid Atomization and Spray Systems, Indianapolis, Indiana, pp. 231-235, May 1999.	
		<i>Performance of Vaned-Disk Atomizers</i> , W.H. Herring, Jr., W.R. Marshall, A.I.Ch.E. Journal, Vol. 1, No. 1, pp. 200-209, June 1955.	
		<i>Atomization of Liquids by Means of Rotating Cup</i> , J.O. Hinze, H. Milborn, Journal of Applied Mechanics, Vol. 17, No. 2, pp. 145-153, June 1950.	
		<i>Low Charge Density Electrostatic Atomization</i> , A. Kelly, IEEE Transactions on Industry Applications, Vol. IA-20, No. 2, 267-273, March/April 1984.	
		<i>Atomization of Emulsions by Spinning Disks in the Ligament Formation Mode</i> , Y. Kitamura, S. Ide, T. Takahashi, Proceedings of the 4th International Conference on Liquid Atomization and Spray Systems, Sendai, Japan, pp. 317-323, July 1988.	
		<i>Some Investigations on the Deformation and Breaking of Water Drops in Strong Electric Fields</i> , W.A. Macky, Proceedings of the Royal Society of London, Series A, Vol. 133, pp. 565-587, October 1931.	
		<i>Film Thickness of a Bingham Liquid on a Rotating Disk</i> , S. Matsumoto, Y. Takashima, A. Kayano, Y. Ohta, T. Kamiya, Industrial & Engineering Chemistry Fundamentals, Vol. 21, No. 3, pp. 198-202, August 1982.	

EXAMINER
SIGNATURE

DATE
CONSIDERED

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450 Alexandria, VA 22313-1450.

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Sheet 4 of 4

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		<i>Atomization Characteristics of Power Law Fluids by Rotating Disks</i> , S. Matsumoto, Y. Takashima, Proceedings of The 1 st International Conference on Liquid Atomization and Spray Systems, The Fuel Society of Japan, pp. 145-150, August 1978.	
		<i>Dynamics of Drop Formation in an Electric Field</i> , P. K. Notz, O.A. Basaran, Proceedings of the 11th Annual Conference on Liquid Atomization and Spray Systems, Sacramento, CA, pp. 180-184, May 1998.	
		<i>The Theory of Sound</i> , J.W. Strutt, Baron Rayleigh, F.R.S., Vol. 2, Dover Publications, pp. 351-355, 1945.	
		<i>Metabolic Control After Autotransplantation of Highly Purified Canine Pancreatic Islets Isolated in UW Solution</i> , M.P.M. van der Burg, O.R. Guicherit, R.J. Ploeg, M. Frölich, J.A. Bruijn, J.P. Scherft, H.G. Gooszen, Transplantation Proceedings, Vol. 23, No. 1, pp. 785-786, February 1991.	
		<i>Comparative Study of Microencapsulated Rat Islets Implanted in Different Diabetic Models in Mice</i> , S. Darquy, D. Chicheportiche, F. Capron, C. Boitard, G. Reach, Hormone and Metabolism Research, Supplement Series Vol. 25, pp. 209-213, 1990.	

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